

Serial No.: 10/806,734
Art Unit 2624

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NOV 25 2008

Docket PD030039
Customer # 24498

Listing and Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Claims 1 – 14 (cancelled)

15. (Currently amended) A method for arbitrarily selectable scaling of input video images represented by pixels or subpixels arranged line by line and column by column in an input video signal, to produce an output video signal comprising output video images that can be displayed, the output video images being represented by one of pixels or subpixels arranged line by line and column by column, wherein the number of lines and columns in the output video images differ from the number of lines and columns of the input video images, the method comprising the steps of:

distributing a number of support points, corresponding to a number of pixels or subpixels in the output video image, across the lines or columns of the input video image at integer pixel or subpixel distances having a minimum variation from one another, wherein the ratio of the number of support points to the number of pixels or subpixels in a line or column of the input video image correspond to the desired scaling factor; and

selecting or calculating one of a pixel or subpixel value for a pixel or subpixel in the output video image from pixel or subpixel values in the input image lying in a range between a corresponding support point and a neighbouring support point;

wherein the method further comprises:

distributing the support points of two successive lines or columns of the input video image such that ~~the~~ at least one range lying between two support points of one line or column of the input image ~~have spatially overlaps~~ an offset with respect to a corresponding range of a preceding or succeeding line or column of the input video image, ~~for improving reproduction of fine details in the output video image~~; and

outputting a video signal comprising the selected or calculated pixel or subpixel value, corresponding to ~~produce the output video image that can be displayed.~~

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16. (Previously presented) The method of claim 15, further comprising the step of determining the values for neighbouring pixels in the output video image from the pixels between a corresponding support point and a neighbouring support point in the input image such that adjacent output pixels have a maximum difference.
17. (Previously presented) The method as claimed in claim 15, further comprising calculating a pixel or subpixel value for a pixel or subpixel in the output video image from pixel or subpixel values in the input video image lying between a corresponding support point and both neighbouring support points.
18. (Previously presented) A scaling circuit for the arbitrarily selectable scaling of video images represented by pixels or subpixels arranged line by line and column by column, having a microprocessor, a program memory and a main memory, and also input means for scaling ratios, wherein the circuit is adapted to execute a method as claimed in claim 15.
19. (Previously presented) A film scanner with a drive for a control monitor, which is configured to execute the method of claim 15.
20. (Previously presented) A film scanner with a drive for a control monitor, which is configured to include a scaling circuit of claim 18.